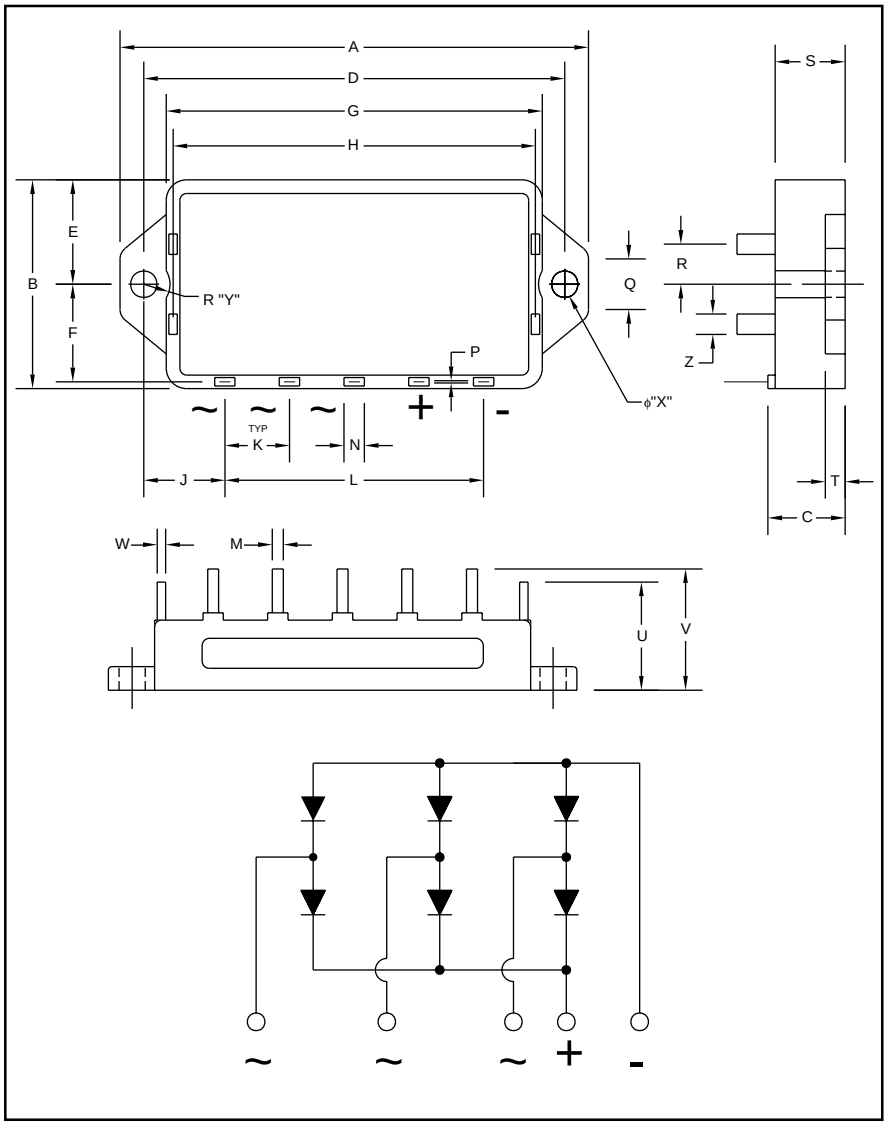
查询RM10TN-H供应商

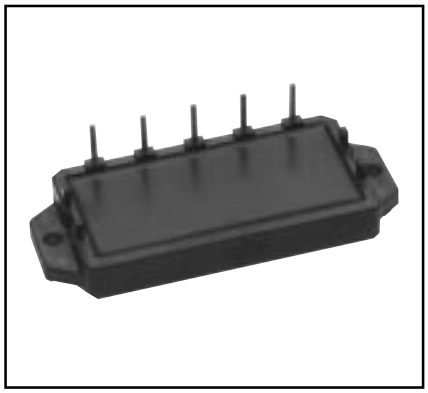
# RM10TN-H




Outline Drawing and Circuit Diagram

| Dimensions | Inches | Millimeters |
|---|---|---|
| A | 2.83 | 71.8 |
| B | 1.18 | 30.0 |
| C | 0.35 | 9.0 |
| D | 2.55 | 64.8 |
| E | 0.59 | 15.0 |
| F | 0.54 | 13.7 |
| G | 2.32 | 58.8 |
| H | 2.21 | 56.2 |
| J | 0.48 | 12.08 |
| K | 0.40 | 10.16 |
| L | 1.60 | 40.64 |
| M | 0.05 | 1.20 |

| Dimensions | Inches | Millimeters |
|---|---|---|
| N | 0.16 | 4.0 |
| P | 0.02 | 0.6 |
| Q | 0.55 | 14.0 |
| R | 0.20 | 5.0 |
| S | 0.35 | 9.0 |
| T | 0.14 | 3.5 |
| U | 0.45 | 11.5 |
| V | 0.71 | 18.0 |
| W | 0.06 | 1.5 |
| X | 0.16 | 4.0 |
| Y | 0.16 | 4.0 |
| Z | 0.08 | 2.0 |



**Description:**
Mitsubishi Three-Phase Diode Bridge Modules are designed for use in applications requiring rectification of three-phase AC lines into DC voltage. Each module consists of six diodes and the interconnect required to form a complete three-phase bridge circuit. Each diode is electrically insulated from the mounting base plate for easy mounting on a common heatsink with other components.

**Features:**

☐ Isolated Mounting

☐ Metal Base Plate

☐ Low Thermal Impedance

**Applications:**

☐ Motor Control

☐ Inverters

☐ UPS

**Ordering Information:**

RM10TN-H



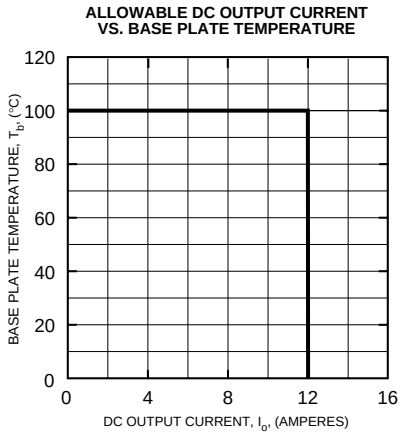
MITSUBISHI ELECTRIC

## Absolute Maximum Ratings, $T_j$ = 25 °C unless otherwise specified

| Ratings | Symbol | RM10TN-H | Units |
|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 800 | Volts |
| Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ | 840 | Volts |
| Recommended AC Input Voltage | $E_A$ | 220 | Volts |
| DC Output Current ($T_b$ = 100°C) | $I_O$ | 12 | Amperes |
| Surge (Non-Repetitive) Forward Current (One Half Cycle at 60Hz, Peak Value) | $I_{FSM}$ | 200 | Amperes |
| $I^2t$ for Fusing (Value for One Cycle of Surge Current) | $I^2t$ | 166 | $A^2sec$ |
| Junction Temperature | $T_j$ | -40 ~ +125 | °C |
| Storage Temperature | $T_{stg}$ | -40 ~ +125 | °C |
| Operating Frequency | f | 1000 | Hz |
| Maximum Mounting Torque M3.5 Mounting Screw | – | 0.78 ~ 0.98 | N · m |
| Maximum Mounting Torque M3.5 Terminal Screw | – | 0.78 ~ 0.98 | N · m |
| Isolation Voltage (Main Terminal to Baseplate, AC 1 min.) | $V_{iso}$ | 2500 | Vrms |

## Electrical and Thermal Characteristics, $T_j$ = 25 °C unless otherwise specified

| Characteristics | Symbol | Test Conditions | Min. | Typ. | Max. | Units |
|---|---|---|---|---|---|---|
| Repetitive Reverse Current | $I_{RRM}$ | $T_j$ = 125°C, $V_{RRM}$ = Rated | – | – | 8.0 | mA |
| Forward Voltage Drop | $V_{FM}$ | $T_j$ = 25°C, $I_{FM}$ = 20A, Instantaneous Meaurement | – | – | 1.5 | Volts |
| Thermal Resistance | $R_{th(j-b)}$ | Junction to Base Plate | – | - | 2.2 | °C/ W |
| Thermal Resistance | $R_{th(b-f)}$ | Base to Fin, Thermal Grease Applied | – | – | 0.3 | °C/W |
| Isolation Resistance | | At 500V DC Between Terminal and Base Plate | 10 | – | – | MΩ |



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